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THE MORISON LECTURES, 1907.

By A. R. URQUHART, M.D., F.R.C.P.Ed.,

James Murray's Royal Asylum, Perth.

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THE MORISON LECTURES, 1907.

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TABLES.

- I. A General Statement of Admissions and Removals, with Percentages, 1880-1904 inclusive. Certified Patients.
- II. A Statement of Insane and Neuropathic Heredity recorded in reference to 809 persons. Certified Patients.
- III. A Statement of the Distribution of Neuropathic Disorders among the Relatives of 623 Persons. Certified and Voluntary Patients.
- IV. Chart of the Children of Neuropathic Parents. Certified and Voluntary Patients.
- V. Chart of the Incidence of Insanity in Neuropathic Families. Certified and Voluntary Patients. VA. Families containing at least one Insane Member.
- VI. Showing the Numbers of Patients affected by Mental Disorders on First Attack, Pathological and Ordinary Forms, correlated with Causal Factors and Age Periods, from inception to final information, 1906. Certified Patients.
- VII. Showing Conditions associated with Insanity on First Admissions, Pathological and Ordinary Forms correlated. Certified Patients.
- VIII. Showing Occupation and Environment in relation to Ordinary and Pathological Insanity, correlated with Heredity and Stress and Results of Treatment. Certified Patients. Asylum Statistics.
- IX., IXA., and IXB. Charts of all Admissions, Recoveries, and Deaths, showing Monthly Incidence, also of Mania and Melancholia. Certified Patients.
- X. Showing Duration of Attack on Admission, correlated with Heredity and Results, Age Periods and Results. Ordinary Insanity only. Certified Patients. Asylum Statistics.
- XI., XIA., XIB., and XIC. Charts of Age on First Attack, by Quinquennial Periods—Males, Females, and Total. Certified Patients. Age on First Recovery, First Relapse, and Death, by Quinquennial Periods—Males, Females and Total. Certified Patients. Showing Age on Death of Patients under Observation, compared with Tables of the Institute of Actuaries. A statement of these in figures.
- XII. Asylum Statistics of Net Recoveries. Certified Patients.
- XIII. Showing Recoveries after First Admission, correlated with Neuropathic Heredity, Age Periods and Duration since First Attack, with Note of Relapses. Certified Patients. XIII A. Relapsed Cases.
- XIV. Showing Causes of Death correlated with Neuropathic Heredity and Forms of Mental Disorder on Admission. All Deaths in Certified Patients. Asylum Statistics.
- XV. Showing Ages at Death, with Duration of Fatal Malady and Duration of Mental Disorder from First Attack. All Deaths in Certified Patients. Asylum Statistics.
- XVI. Showing Correlations of Bodily and Mental Disorders.
- XVII. Showing incidence of Heredity among Alcoholic Patients.



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JAMES MURRAY'S ROYAL ASYLUM, PERTH.

TABLE I.—*A General Statement of Admissions and Removals, regarding Admissions, Readmissions, and Totals; with Percentages during the Period under Review, 1880-1904 inclusive.*

FIRST ADMISSIONS.				READMISSIONS.				TOTAL CASES UNDER CARE.			
M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Persons admitted for the First Time.				Readmitted . . .				Total Cases admitted .			
Recovered .	120	132	252	..	..	76	97	173	..	495	487
Of these {	163	152	315	23	38	61	..	Recovered .	143	170	313
Unrecovered.	86	54	140	25	30	55	..	Of these {	188	182	370
Died . . .	..	..	..	9	15	24	57	Unrecovered.	95	69	164
	338	707						Died . . .	426	421	847
Remaining .	50	102		Remaining .	19	14	33		Remaining .	69	135
Of the above—				Of the above—				Of the above—			
Percentage Recovered .	28.63	33.84	31.14	Percentage Recovered .	30.26	39.17	35.26	Percentage Recovered .	28.80	34.90	31.87
Unrecovered .	38.90	38.97	38.93	Unrecovered .	32.89	30.92	31.79	Unrecovered .	37.97	37.30	37.67
Died . . .	20.52	13.84	17.30	Died .	11.84	15.46	13.87	Died .	19.19	14.16	16.70
Remaining .	11.93	13.33	12.60	Remaining .	25.00	14.43	19.07	Remaining .	13.93	13.55	13.74

Percentage of Readmissions on Total Numbers admitted—Males, 15.35; Females, 19.91; Total, 17.61.

TABLE II.—*A Statement of Insane and Neuropathic Heredity recorded in reference to 809 Persons—
1884-1904 inclusive.*

	Total Admitted.			No Heredity of Insanity.			Heredity of Insanity.			Heredity of Insanity, etc.			Percentage of Hereditary Insanity.			Percentage of Heredity of Insanity, etc.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Period I. ending 1884	99	100	199	58	56	114	41	44	85	59	59	118	41·41	44·00	42·71	59·59	59·00	59·29
Period II. „ 1894	139	130	269	77	75	152	62	55	117	101	83	184	44·60	42·30	43·49	72·66	63·84	68·40
Period III. „ 1904	181	160	341	102	73	175	79	87	166	145	134	279	43·64	54·37	48·68	80·11	83·75	81·81
Total	419	390	809	237	204	441	182	186	368	305	276	581	43·43	47·69	45·48	72·79	70·76	71·81

TABLE III.—*Showing Neuropathic Relatives affected, Direct and Collateral (including Voluntary Patients). Total Cases, 1104. Persons recorded: Males, 331; Females, 292; Total, 623.*

INSANE RELATIONS.										ECCENTRICITY AND NEUROSES.									
					Direct.					Collateral.					Totals.				
					M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Group 1	Coll.	M.	2	2	4	4	4	2	2	4	2	2	2	2	2	2	2	2	2
	F. F.	M.	2	2	4	4	4	2	2	4	2	2	2	2	2	2	2	2	2
	F. M.	M.	2	2	4	4	4	2	2	4	2	2	2	2	2	2	2	2	2
Group 2	F. B.	M.	30	24	54	54	119	65	54	119	65	54	119	65	54	119	65	54	119
	F. S.	M.	15	11	26	26	52	16	14	30	16	14	30	16	14	30	16	14	30
	F. S.	M.	12	10	22	22	44	11	10	21	11	10	21	11	10	21	11	10	21
Group 3	Coll.	M.	2	1	3	3	6	2	1	3	2	1	3	2	1	3	2	1	3
	M. F.	M.	4	1	5	5	10	3	1	4	3	1	4	3	1	4	3	1	4
	M. M.	M.	3	3	6	6	12	3	3	6	3	3	6	3	3	6	3	3	6
Group 4	M. B.	M.	28	38	66	66	132	61	67	128	61	67	128	61	67	128	61	67	128
	M. S.	M.	9	12	21	21	42	24	24	48	24	24	48	24	24	48	24	24	48
	M. S.	M.	15	12	27	27	54	81	122	210	81	122	210	81	122	210	81	122	210
Group 5	(S.	M.	49	51	100	100	200	127	112	239	127	112	239	127	112	239	127	112	239
	(S.	M.	39	71	110	110	220	220	235	455	220	235	455	220	235	455	220	235	455
	Ch.	M.	127	112	239	239	478	346	356	702	346	356	702	346	356	702	346	356	702
Total			346	356	702	702	1404	76	74	150	270	282	552	346	356	702	346	356	702

PARALYSIS.										ALCOHOLISM.									
					Direct.					Collateral.					Totals.				
					M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Group 1	Coll.	M.	2	2	4	4	4	2	2	4	2	2	2	2	2	2	2	2	2
	F. F.	M.	2	2	4	4	4	2	2	4	2	2	2	2	2	2	2	2	2
	F. M.	M.	2	2	4	4	4	2	2	4	2	2	2	2	2	2	2	2	2
Group 2	F. B.	M.	33	26	59	59	118	11	11	22	11	11	22	11	11	22	11	11	22
	F. S.	M.	4	1	5	5	10	3	1	4	3	1	4	3	1	4	3	1	4
	F. S.	M.	7	2	9	9	18	5	2	7	5	2	7	5	2	7	5	2	7
Group 3	Coll.	M.	3	3	6	6	12	3	3	6	3	3	6	3	3	6	3	3	6
	M. F.	M.	3	3	6	6	12	3	3	6	3	3	6	3	3	6	3	3	6
	M. M.	M.	17	19	36	36	72	27	24	51	27	24	51	27	24	51	27	24	51
Group 4	M. B.	M.	6	3	9	9	18	3	4	7	3	4	7	3	4	7	3	4	7
	M. S.	M.	3	2	5	5	10	3	2	5	3	2	5	3	2	5	3	2	5
	(S.	M.	8	4	12	12	24	19	6	25	19	6	25	19	6	25	19	6	25
Group 5	Ch.	M.	11	2	13	13	26	13	6	19	13	6	19	13	6	19	13	6	19
	Others	M.	13	6	19	19	38	13	6	19	13	6	19	13	6	19	13	6	19
	Total		116	75	191	191	382	70	56	126	46	19	65	116	75	191	116	75	191

NOTE.—For F. F. read Father's Father, F. B. Father's Brother, etc.

TABLE IV.—Chart of the Children of Parents Insane, Alcoholic, or otherwise Neuropathic.

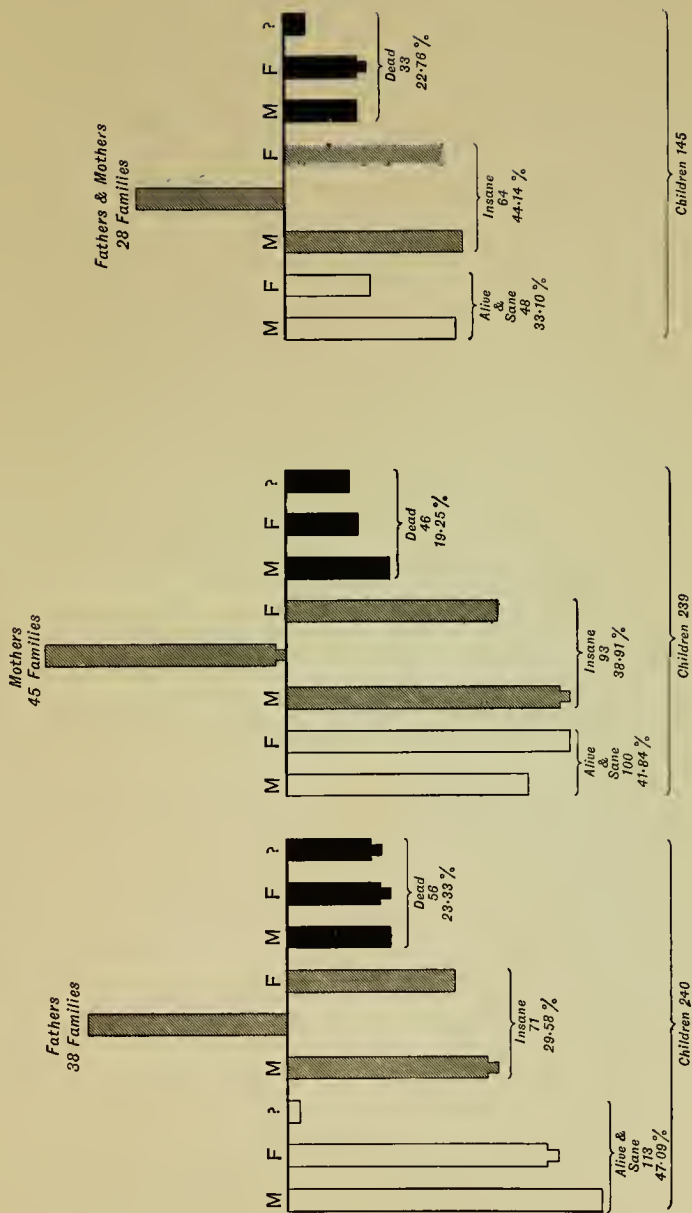


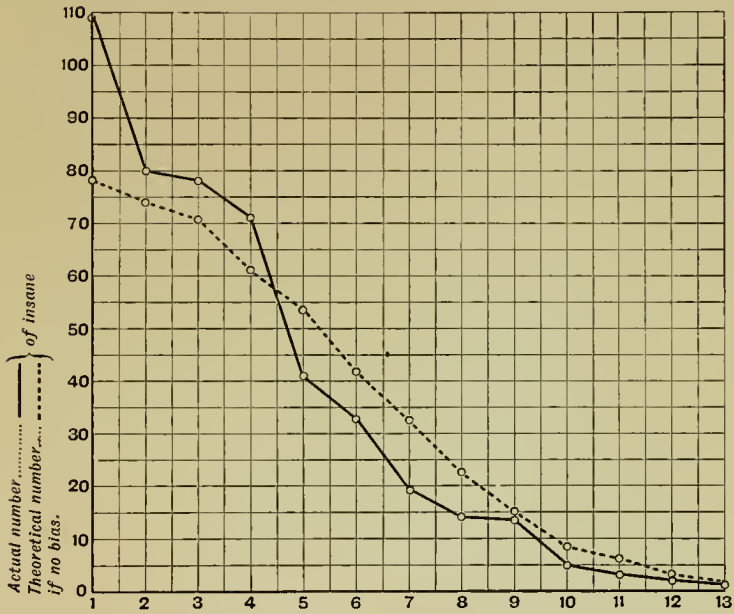
TABLE V.—*Chart of the Incidence of Insanity in Neuropathic Families.*



TABLE VA. — *Families containing at least one Insane Member.*

I. Frequency of size of Family.		II. No. of Persons born 1st, 2nd, etc.		III. No. of Persons born 1st, 2nd, etc., actually Insane.		IV. No. of Persons born, 1st, 2nd, etc., and Insane, if no bias.	
No. in Family.	Fre- quency.	Order.	Fre- quency.	Order.	Fre- quency.	Order.	Fre- quency.
1	10	1st	315	1st	108	1st	77·3
2	14	2nd	305	2nd	80	2nd	74·8
3	42	3rd	291	3rd	78	3rd	71·4
4	30	4th	249	4th	71	4th	61·1
5	48	5th	219	5th	41	5th	53·7
6	37	6th	171	6th	33	6th	41·9
7	41	7th	134	7th	19	7th	32·9
8	38	8th	93	8th	14	8th	22·8
9	20	9th	55	9th	13	9th	13·5
10	13	10th	35	10th	5	10th	8·6
11	8	11th	22	11th	3	11th	5·4
12	9	12th	14	12th	2	12th	3·4
13	5	13th	5	13th	1	13th	1·2
	315		1908		468		468·0

Family = Fraternity.

TABLE VI.—*Certified Patients. First Admissions. Table showing the number of Patients affected by Mental Disorders, correlated with general causal Factors and Age Periods—from inception to latest information, 1906.*

Mental Disorders.	Total Persons.		Deduct these Cases of—																		Net Total of Ordinary Insanity.											
			Alcoholism.						General Paralysis.			Epilepsy.			Organic.			Senile.						Trauma.			Idiots.			Being Persons.		
			M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.				M.	F.	T.	M.	F.	T.	M.	F.	T.
Melancholia—Recent .	M.	67	155	13	1	14	1	0	1	1	0	1	2	0	2	7	8	15	3	0	3	0	0	0	0	25	9	34	M.	42	79	121
Melancholia—Chronic .	48	62	110	5	3	8	0	0	0	1	0	1	1	1	2	2	5	7	1	1	2	0	0	0	0	9	10	19	39	52	91	
Mania—Recent .	89	74	163	24	5	29	12	0	12	5	1	6	1	1	2	10	6	16	2	0	2	0	0	0	0	43	13	56	46	61	107	
Mania—Chronic .	60	80	140	20	10	30	7	1	8	1	1	2	4	3	7	7	10	17	1	3	4	0	0	0	0	33	23	56	27	57	84	
Delusional Insanity .	53	43	96	8	0	8	0	0	0	3	1	4	1	0	1	3	0	3	4	0	4	0	0	0	0	15	1	16	38	42	80	
Dementia (including cir- cular Insanity)	91	40	131	19	6	25	19	0	19	9	0	9	2	0	2	6	12	9	2	11	0	0	0	0	48	12	60	43	28	71		
Totals .	408	387	795	89	25	114	39	1	40	19	4	23	11	5	16	35	35	70	20	6	26	0	0	0	173	68	241	235	319	554		
Idiots and Imbeciles .	11	3	14	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	11	3	14	11	3	14	0	0	0		
Grand Total	419	390	809	90	25	115	39	1	40	20	4	24	11	5	16	35	35	70	20	6	26	11	3	14	184	71	255	235	319	554		



TABLE VI.—Continued.

Mental Disorders.	Net Total of Ordinary Insanity.	Causal. On First Admission.	FINAL RESULTS.												PERCENTAGES.																							
			Recovered						Recovered and Relapsed.			Unrecovered.			Died Insane.			Total.						Recovered.						Recovered and Relapsed.			Unrecovered.			Died Insane.		
			Recovered			Recovered and Relapsed.			Unrecovered.			Died Insane.			Total.						Recovered.			Recovered and Relapsed.			Unrecovered.			Died Insane.								
			M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.			
Melancholia—Recent.	M. F. T. 42 79 121	Innate Acquired Mental Physical.	10 23 33	3 4 7	10 21 31	5 6 11	28 54 82	2 2 4	5 10 15	17 22 39	2 5 7	10 16 26	8 14 23	30 38 66	11 17 28	54 82 136	2 6 8	14 25 39	2 5 7	10 16 26	5 5 10	17 22 39	2 11 13	20 26 46	86 134 220	27 12 38	20 33 79	13 56 13	48 13 51	42 37 35	96 38 51	16 95 16	95 12 36	14 19 19				
Melancholia—Chronic.	39 52 91	Innate Acquired Mental Physical.	6 11 17	5 8 13	15 21 36	2 5 7	8 14 22	3 4 7	13 21 34	5 11 16	20 33 53	2 5 7	10 16 26	5 5 10	17 22 39	2 11 13	20 26 46	86 134 220	27 12 38	20 33 79	13 56 13	48 13 51	42 37 35	96 38 51	16 95 16	95 12 36	14 19 31	26 19 28	29 31 22	25 50 75	27 50 30	44 23 53	27 50 30					
Mania—Recent.	46 61 107	Innate Acquired Mental Physical.	13 20 33	6 10 16	8 15 23	5 8 13	15 23 38	2 5 7	10 16 26	5 5 10	17 22 39	2 5 7	10 16 26	5 5 10	17 22 39	2 11 13	20 26 46	86 134 220	27 12 38	20 33 79	13 56 13	48 13 51	42 37 35	96 38 51	16 95 16	95 12 36	14 19 31	26 19 28	29 31 22	25 50 75	27 50 30	44 23 53	27 50 30					
Mania—Chronic.	27 57 84	Innate Acquired Mental Physical.	1 4 5	0 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1				
Delusional Insanity.	38 42 80	Innate Acquired Mental Physical.	0 1 1	0 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1	3 2 5	1 1 1				
Dementia (including circular Insanity).	43 28 71	Innate Acquired Mental Physical.	0 0 0	0 0 0	1 1 1	0 0 0	1 1 1	0 0 0	1 1 1	0 0 0	1 1 1	0 0 0	1 1 1	0 0 0	1 1 1	0 0 0	1 1 1	0 0 0	1 1 1	0 0 0	1 1 1	0 0 0	1 1 1	0 0 0	1 1 1	0 0 0	1 1 1	0 0 0	1 1 1	0 0 0	1 1 1	0 0 0	1 1 1	0 0 0				
Totals.	235 319 554	Innate and Acquired	47 91 138	33 41 74	102 121 223	53 66 119	235 319 554																															
Grand Total.	235 319 554	Innate and Acquired	47 91 138	33 41 74	102 121 223	53 66 119	235 319 554																															

TABLE VI.—Continued.

[illegible]

TABLE VII.—Conditions associated with *Insanity, as ascertained on First Admissions—all forms included.*
Asylum Statistics—Certified Patients.

Persons Observed.	Total Incidence.			Total Neuro-pathic Heredity.		Heredity of Insanity.		Exhaustion (non-toxic).		Epilepsy		General Paralysis		Other Organic Diseases of the Brain.		Alcoholic.		Auto-toxic (Gout, Rheumatism, etc.)		Tubercle Syphilis.		Traumata.		Senile.	
	M.	F.	T.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Total Neuropathic Heredity	305	276	581	305	276																				
Heredity of Insanity	182	186	368	..	..	182	186	4	14	4	1	10	..	3	2	69	17	24	37	10	15	10	..	18	16
Exhaustion (not toxic)	16	26	42	9	18	4	14	16	26	..	..	2	..	..	..	10	1	2	..	..	..	1	2	..	..
Epilepsy	20	4	24	12	3	4	1	..	..	20	4	1	..	..	..	..	..	..	..	2	..	3	..	..	1
General Paralysis	39	1	40	31	1	10	..	2	..	1	..	39	1	..	..	14	3	3	..	23	..	1	..	..	..
Organic cerebral diseases	11	5	16	7	4	3	2	..	..	..	..	..	..	11	5	4	1	..	..	..	..	1	..	6	1
Hæmopoietic	16	25	41	11	17	5	12	1	1	..	..	..	..	..	..	..	..	2	3	1	1	..	..	..	..
Cardio-vascular	72	73	145	52	46	35	36	1	4	4	..	1	..	1	18	4	7	12	1	2	2	..	2	9	16
Respiratory (not Phthisis)	4	12	16	3	11	2	8	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	1	2	..
Gastro-intestinal.	34	61	95	24	46	18	26	3	..	..	..	2	..	1	6	6	2	7	1	3	1	1	4	5	..
Renal and vesical	19	16	35	14	11	8	4	1	..	2	..	1	..	2	1	6	..	2	3	..	..	..	3	1	..
Generative	8	82	90	6	60	2	45	5	1	1	1	..	..	1	1	1	1	5	1	1	..	..	2	1	..
Others	29	30	59	17	21	10	12	1	..	1	1	1	..	..	4	3	2	..	1	..	..	..	2	1	..
Exotoxic—Alcohol, etc.	90	25	115	69	17	39	8	..	..	10	1	14	..	4	1	90	25	5	1	2	11	1	3	3	1
Autotoxic—Gout, etc.	38	55	93	24	37	16	25	..	1	2	..	3	..	..	..	5	1	38	55	1	1	1	1	9	1
Microbic Tubercle	21	14	35	15	10	10	9	..	..	..	..	..	..	..	..	2	2	1	1	14	..	..	..	..	..
Syphilis	33	1	34	28	..	15	..	..	..	2	..	23	..	..	..	11	1	..	..	33	1	..	..	..	..
Traumata	20	6	26	12	3	10	..	1	1	3	..	1	..	1	..	3	..	1	..	..	..	20	6	1	..
Senile	35	35	70	22	24	18	16	2	..	..	1	..	..	6	1	3	1	9	1	..	..	1	..	35	35

TABLE VIII.—Showing Occupation and Environment in relation to Ordinary and Pathological Insanity, correlated with Heredity and Stress, and Results of Treatment. *Certified Patients.*

Occupations and Dependents.	URBAN.										RURAL.									
	Total Persons.					Mental Disorder.					HEREDITY.					Final Results.				
	Neuropathic.		None.		Total.	Ordinary.		Pathological.		Total.	Recovered.		Unrecovered.		Total.	Died.		Total.		Total.
	M.	F.	M.	F.		M.	F.	M.	F.		M.	F.	M.	F.		M.	F.	M.	F.	
Government, Army, etc.	19	7	26	10	3	3	9	6	1	6	1	2	3	5	1	6	3	15	3	15
Clerical	12	14	26	9	1	2	10	1	1	1	1	2	3	5	1	6	4	7	11	11
Legal	19	4	23	13	2	15	2	4	4	4	4	1	14	1	1	1	19	2	21	16
Medical	19	5	24	10	3	9	12	4	4	4	5	5	18	2	1	4	13	3	16	20
Teaching	6	26	32	15	17	8	15	19	1	1	6	6	2	7	3	5	4	16	20	15
Artistic and Literary	12	5	17	8	4	12	3	3	3	3	3	2	3	10	2	3	2	11	4	15
Other Professions	11	4	15	4	4	7	1	1	1	1	3	3	4	7	1	4	8	10	16	16
Domestic Service	41	44	85	8	8	15	15	1	1	1	1	5	5	7	7	4	10	35	129	139
Commercial	128	47	175	60	26	47	30	47	5	52	20	14	34	47	14	7	94	262	353	456
Railways and Seafaring	6	5	11	1	1	2	1	1	1	2	1	1	1	2	2	4	2	3	5	5
Agricultural	65	43	108	3	4	7	10	3	1	1	2	1	3	4	2	2	6	7	13	13
Trades	69	78	147	33	34	25	34	59	14	10	24	11	22	18	40	6	39	44	83	83
Manufacturers	10	13	23	2	1	2	2	4	1	1	2	2	3	2	2	1	2	3	5	5
Hotel-keepers, etc.	16	80	96	4	37	41	28	5	5	5	2	2	4	3	7	10	8	3	8	17
Independent Means	9	9	18	2	2	3	5	7	2	2	2	1	3	1	3	11	13	6	56	61
No Occupation	9	9	18	2	2	2	1	1	1	1	2	2	1	3	1	4	5	9	9	9
Unknown	11	3	14	9	1	10	1	9	1	10	1	1	1	2	2	1	4	5	9	2
Idiot and Imbeciles	419	390	809	177	156	333	138	184	322	104	30	134	49	69	118	59	242	177	353	456
Totals	419	390	809	177	156	333	138	184	322	104	30	134	49	69	118	59	242	177	353	456

Occupations and Dependents.	MENTAL STRESS.										PHYSICAL STRESS.									
	Total Persons.					Hereditry.					Mental Disorders.					Final Results.				
	Neuropathic.		None.		Total.	Ordinary.		Pathological.		Total.	Recovered.		Unrecovered.		Total.	Died.		Unrecovered.		Total.
	M.	F.	M.	F.		M.	F.	M.	F.		M.	F.	M.	F.		M.	F.	M.	F.	
Government, Army, etc.	19	7	26	1	1	1	1	1	1	2	2	2	2	2	1	1	1	1	1	3
Clerical . . .	12	14	26	2	2	2	2	2	2	4	2	2	2	2	1	1	1	1	1	2
Legal . . .	19	4	23	2	2	2	2	2	2	8	1	1	1	1	5	2	2	2	2	4
Medical . . .	19	5	24	1	1	1	1	1	1	1	1	1	1	1	3	2	2	2	2	4
Teaching . . .	6	26	32	8	11	1	1	1	1	12	1	1	1	1	3	3	3	3	3	12
Artistic and Literary .	12	5	17	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	5
Other Professions . . .	11	11	22	1	1	1	1	1	1	15	1	1	1	1	2	1	1	1	1	2
Domestic Service . . .	128	44	172	12	12	1	1	1	1	15	6	6	6	6	36	16	16	16	16	50
Commercial . . .	47	175	222	9	9	14	14	14	14	35	10	10	10	10	3	3	3	3	3	5
Railways and Seafaring .	6	5	11	2	2	2	2	2	2	4	3	3	3	3	1	1	1	1	1	5
Agricultural . . .	65	43	108	13	10	23	4	5	0	14	13	27	3	3	17	20	31	3	3	32
Trades . . .	69	78	147	18	21	39	5	8	11	20	25	45	3	3	23	15	16	23	27	50
Manufacturers . . .	7	5	12	2	3	5	1	1	1	2	2	2	2	2	2	2	2	2	2	7
Hotel-keepers, etc. . .	10	13	23	2	3	5	1	1	1	7	2	2	2	2	3	3	3	3	3	7
Independent Means . . .	16	80	96	2	20	22	2	2	2	26	6	6	6	6	1	1	1	1	1	29
No Occupation . . .	9	18	27	3	2	5	2	2	2	4	4	4	4	4	2	2	2	2	2	7
Unknown . . .	11	3	14	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	7
Idiots and Imbeciles .	11	3	14	1	1	1	1	1	1	1	1	1	1	1	3	3	3	3	3	7
Totals . . .	419	390	809	82	98	180	26	33	59	78	125	203	30	6	108	16	44	130	131	239

Occupations and Dependents.	MENTAL STRESS.										PHYSICAL STRESS.									
	Total Persons.					Hereditry.					Mental Disorders.					Final Results.				
	Neuropathic.		None.		Total.	Ordinary.		Pathological.		Total.	Recovered.		Unrecovered.		Total.	Died.		Unrecovered.		Total.
	M.	F.	M.	F.		M.	F.	M.	F.		M.	F.	M.	F.		M.	F.	M.	F.	
Government, Army, etc.	19	7	26	6	6	6	6	6	6	11	6	6	6	6	13	5	5	5	5	19
Clerical . . .	12	14	26	8	8	8	8	8	8	14	8	8	8	8	10	6	6	6	6	16
Legal . . .	19	4	23	8	8	8	8	8	8	18	8	8	8	8	12	2	2	2	2	15
Medical . . .	19	5	24	11	11	11	11	11	11	19	11	11	11	11	19	3	3	3	3	20
Teaching . . .	6	26	32	15	15	15	15	15	15	33	15	15	15	15	4	4	4	4	4	10
Artistic and Literary .	12	5	17	3	3	3	3	3	3	6	3	3	3	3	7	1	1	1	1	8
Other Professions . . .	11	11	22	3	3	3	3	3	3	14	3	3	3	3	1	1	1	1	1	5
Domestic Service . . .	128	44	172	22	22	22	22	22	22	34	22	22	22	22	14	15	15	15	15	36
Commercial . . .	47	175	222	9	9	9	9	9	9	38	9	9	9	9	41	8	8	8	8	49
Railways and Seafaring .	6	5	11	2	2	2	2	2	2	4	2	2	2	2	3	2	2	2	2	9
Agricultural . . .	65	43	108	24	21	45	12	10	13	23	20	30	16	16	36	10	10	10	10	68
Trades . . .	69	78	147	37	41	78	10	18	11	23	28	50	27	26	53	17	17	17	17	108
Manufacturers . . .	7	5	12	3	3	3	3	3	3	6	3	3	3	3	2	2	2	2	2	6
Hotel-keepers, etc. . .	10	13	23	6	9	15	2	2	2	9	6	6	6	6	3	3	3	3	3	16
Independent Means . . .	16	80	96	10	39	49	2	2	2	18	7	7	7	7	12	15	15	15	15	67
No Occupation . . .	9	18	27	3	2	5	2	2	2	4	4	4	4	4	2	2	2	2	2	14
Unknown . . .	11	3	14	2	2	2	2	2	2	1	1	1	1	1	3	3	3	3	3	7
Idiots and Imbeciles .	11	3	14	2	2	2	2	2	2	1	1	1	1	1	3	3	3	3	3	7
Totals . . .	419	390	809	196	201	397	77	88	165	137	252	389	136	37	289	57	130	273	289	562

TABLE IX.—*Chart of Total Numbers, showing the Monthly Incidence of the Attacks, Recoveries, and Deaths. All Certified Cases.*

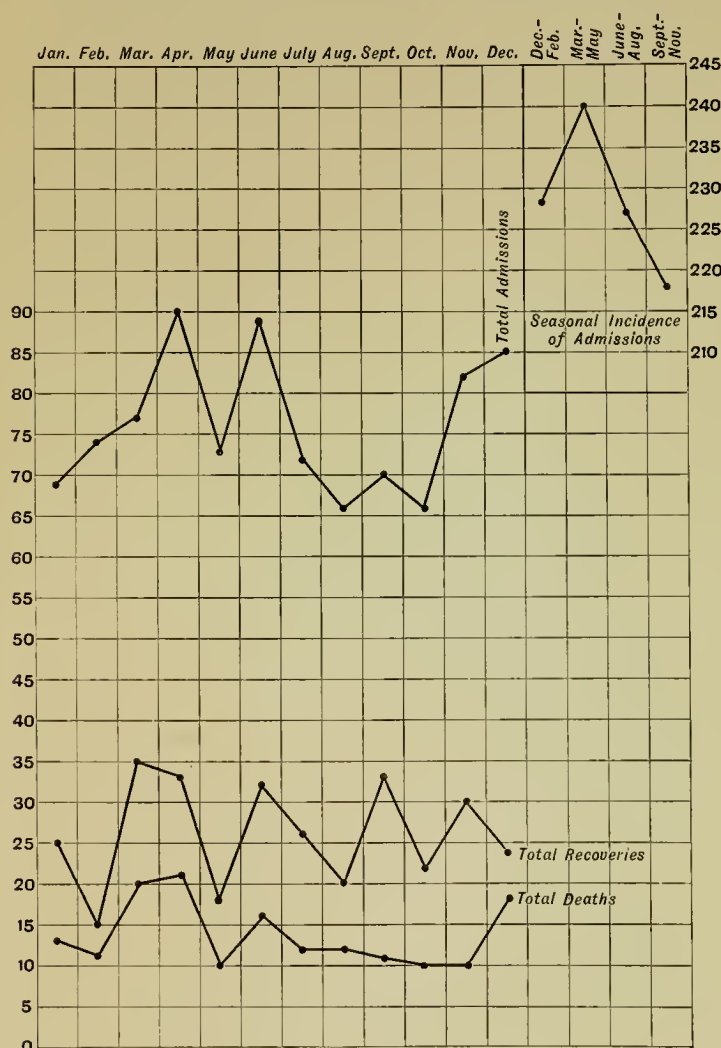


TABLE IXA.—Chart of (a) Male and Female Admissions, (b) Male Cases of Mania and Melancholia, (c) Female Cases of Mania and Melancholia, showing the Monthly Incidence of the Attacks. Certified Patients.

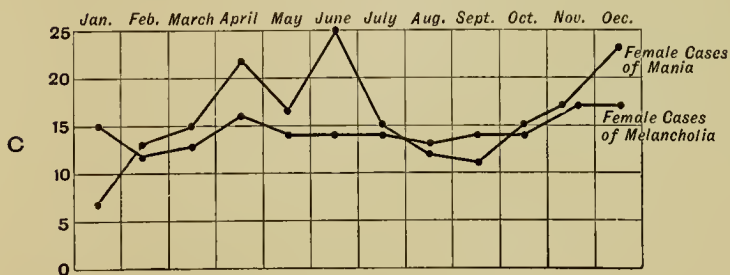
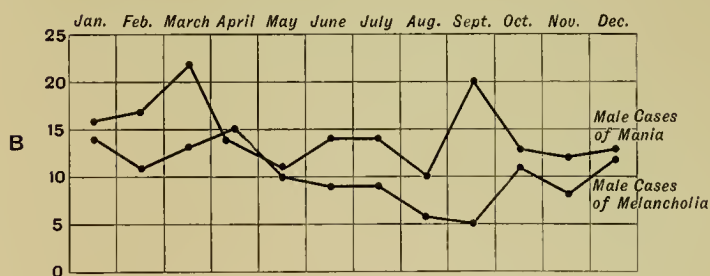
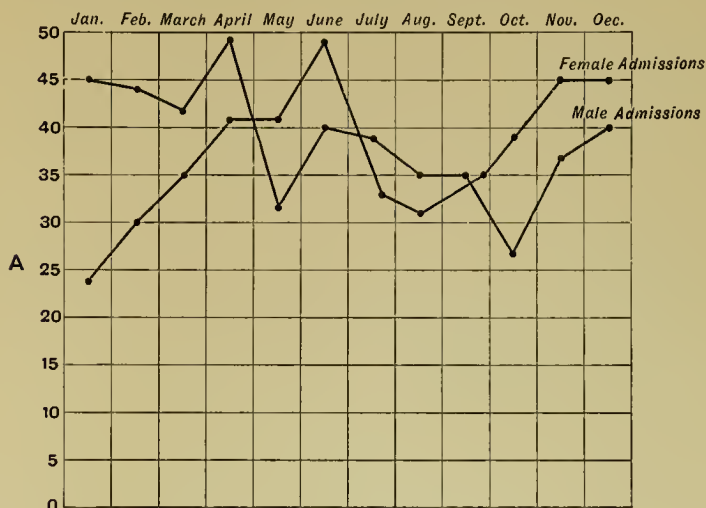
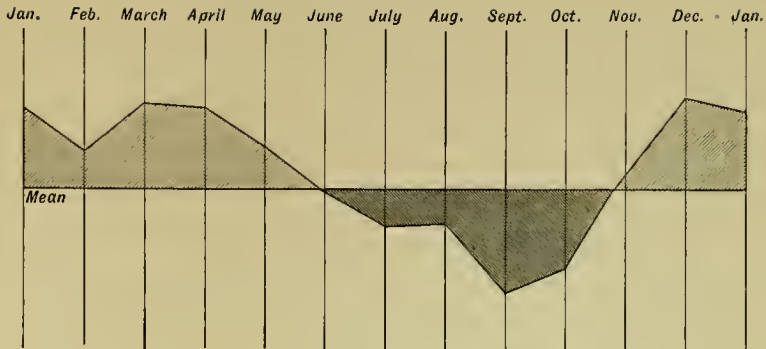


CHART IXB.



767 Cases, showing the curve of monthly incidence at inception of attack, constructed from percentages, and showing the incidence in the month immediately preceding and the month immediately following any month.

TABLE XI.—*Chart showing Age on First Attack by Quinquennial Periods—Males, Females, and Totals.*

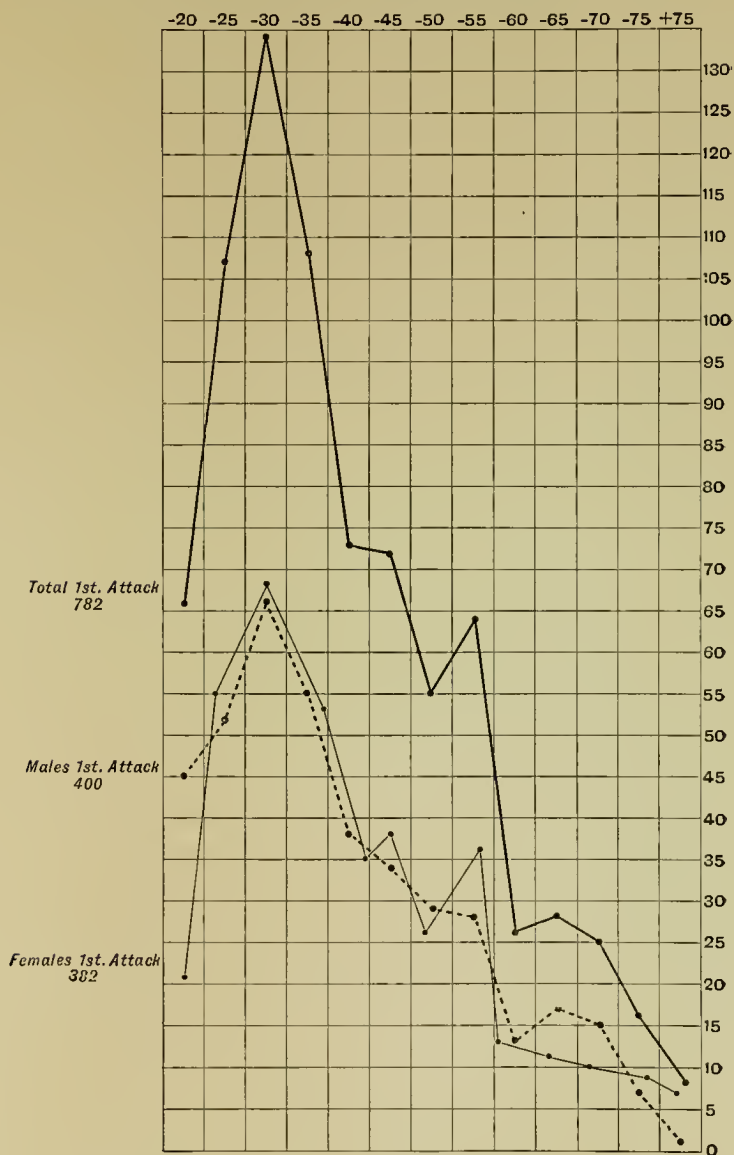


TABLE XI A.—Chart showing Ages on First Recovery, First Relapse, and Death—Males, Females, and Totals.

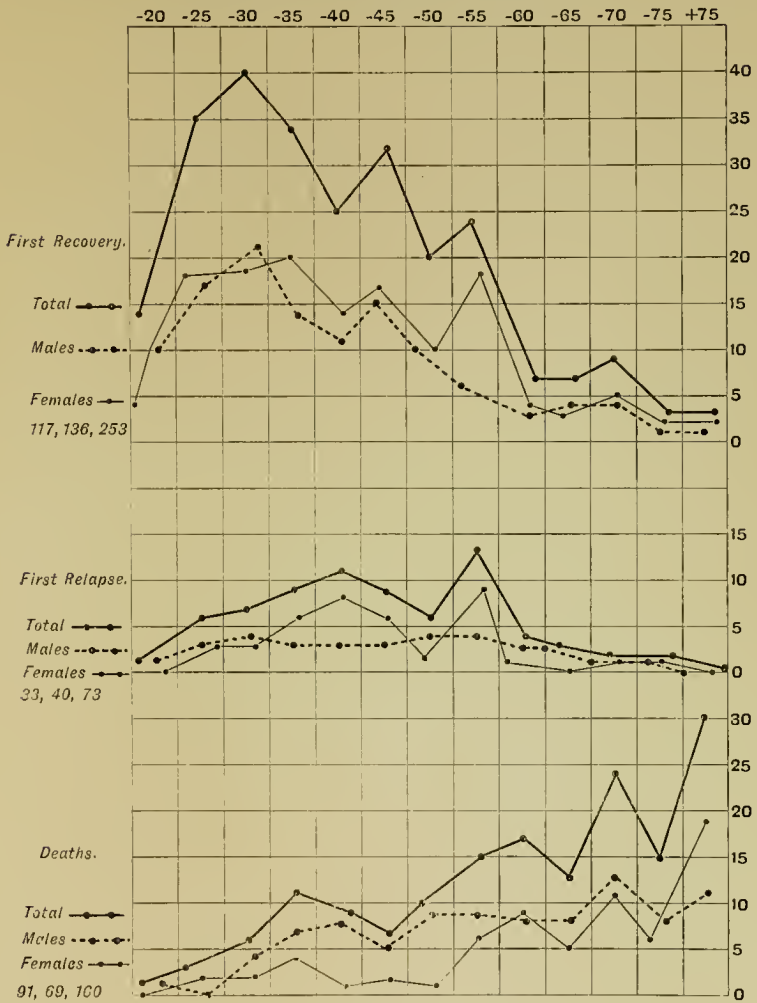


TABLE XIb.—*Showing Age on Death of Patients under observation, compared with the Tables of the Institute of Actuaries.*

Age Group.	INSANE.		HM. TABLE.		Age Group.
	Average Age at Death.	Percentage of Number of Deaths to Total Number.	Average Age at Death.	Percentage of Number of Deaths to Total Number.	
15-25	21	2	20	5	15-25
25-40	33	16	32	11	25-40
40-60	51	31	51	24	40-60
60-75	67	33	68	36	60-75
Over 75	...	18	82	24	Over 75

TABLE XIc.—*A Statement of Age on First Attack, First Recovery, First Relapse, calculated from information obtained. Age on Death from Asylum Statistics.*

Age on First Attack.				First Recovery.			First Relapse.			Age on Death.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
- 20	45	21	66	10	4	14	1	...	1	1	...	1
25	52	55	107	17	18	35	3	3	6	...	2	2
30	66	68	134	21	19	40	4	3	7	4	2	6
35	55	53	108	14	20	34	3	6	9	7	4	11
40	38	35	73	11	14	25	3	8	11	8	1	9
45	34	38	72	15	17	32	3	6	9	5	2	7
50	29	26	55	10	10	20	4	2	6	9	1	10
55	28	36	64	6	18	24	4	9	13	9	6	15
60	13	13	26	3	4	7	3	1	4	8	9	17
65	17	11	28	4	3	7	3	...	3	8	5	13
70	15	10	25	4	5	9	1	1	2	13	11	24
75	7	9	16	1	2	3	1	1	2	8	7	15
+ 75	1	7	8	1	2	3	...	...	...	11	19	30
	400	382	782	117	136	253	33	40	73	91	69	160
Unknown	8	5	13									
Idiots .	11	3	14*						Idiots	4	...	4
	419	390	809							95	69	164

TABLE XII.—*Showing the Admissions and Recoveries of Persons during Forty Years, so far as Asylum Statistics go.*

	M.	F.	T.	
Persons admitted	504	475	979	
Of whom discharged recovered	156	166	322	Being 32·89 per cent. of the persons admitted (M. 30·95, F. 34·94).
Of whom readmitted relapsed .	39	48	87	
Leaving recovered and not relapsed	117	118	235	
Relapsed persons recovered .	26	25	51	
Net recovered persons . . .	143	143	286	Being 29·21 per cent. of the persons admitted (M. 28·37, F. 30·10).
<i>Showing Admissions and Recoveries of Cases during Forty Years. Asylum Statistics.</i>				
Admitted	599	585	1184	
Recovered	180	204	384	Being 32·43 per cent. of the cases admitted (M. 30·05, F. 34·87).

TABLE XIII.—*Recoveries after First Admission, correlated with Neuro-Persons recovered and not*

Form of Mental Disorder on First Attack.	Heredity Neuro-pathic or None.	Number of Recoveries.			AGE PERIODS.																									
					On First Attack.												On Recovery.													
					Adol.	Mat.	Clim.	Senile.	Adol.	Mat.	Clim.	Senile.																		
M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.							
Melancholia, Recent	NP.	19	22	41	6	4	10	8	11	19	2	6	8	3	1	4	5	4	9	9	11	20	2	6	8	3	1	4		
	None	8	7	15					4	6	10	3	1	4	1	1				4	6	10	3	1	4	1	1			
	Both	27	29	56	6	4	10	12	17	29	5	7	12	4	1	5	5	4	9	13	17	30	5	7	12	4	1	5		
Melancholia, Chronic	NP.	19	14	33	6	5	11	8	6	14	4	3	7	1		1	2		2	7	5	12	9	8	17	1	1	2		
	None	5	7	12	3	1	4	1		1	1	4			2	2	1		1	3	1	4	1	4	5		2	2		
	Both	24	21	45	9	6	15	9	6	15	5	7	12	1	2	3	3		3	10	6	16	10	12	22	1	3	4		
Mania, Recent	NP.	30	30	60	8	10	18	15	12	27	7	8	15				8	9	17	15	13	28	6	8	14	1		1		
	None	10	14	24	6	4	10	2	4	6	2	5	7			1	1	4	4	8	4	4	8	2	5	7		1	1	
	Both	40	44	84	14	14	28	17	16	33	9	13	22			1	1	12	13	25	19	17	36	8	13	21	1	1	2	
Mania, Chronic	NP.	13	26	39	7	8	15	3	9	12	1	8	9	2	1	3	5	2	7	4	9	13	2	13	15	2	2	4		
	None	11	5	16	2	2	4	5	2	7	2	1	3	2		2		2	2	7	1	8	2	1	3	2	1	3		
	Both	24	31	55	9	10	19	8	11	19	3	9	12	4	1	5	5	4	9	11	10	21	4	14	18	4	3	7		
Delusional	NP.	1	4	5					1	2	3		2	2								1	3	4		1	1			
	None	2	1	3			1	1	2		2									1	1	2		2						
	Both	3	5	8			1	1	3	2	5		2	2						1	1	3	3	6		1	1			
Dementia	NP.	2	1	3							2	1	3											2	1	3				
	None		1	1					1	1											1	1								
	Both	2	2	4																	1	1								
Totals Neuropathic		84	97	181	27	27	54	35	40	75	16	28	44	6	2	8	20	15	35	36	41	77	21	37	58	7	4	11		
,, None		36	35	71	11	8	19	14	13	27	8	11	19	3	3	6	5	7	12	20	13	33	8	11	19	3	4	7		
,, Both		120	132	252	38	35	73	49	53	102	24	39	63	9	5	14	25	22	47	56	54	110	29	48	77	10	8	18		

pathic Heredity, Age Periods, and Duration since First Attack. Also relapsed. Certified Patients.

DURATION SINCE FIRST ATTACK IN MONTHS AND YEARS.											RECOVERED.																						
-3 mos.			-6 mos.			-12 mos.			-2 years.		-3 years.		-5 years.		-10 years.		-20 years.		-30 years.		+30 years.		Relapsed.			Not Relapsed.							
M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.				
2..	2	7	6	13	5	8	13	5	5	10	1	1	1	1	1	1	1	1	1	1	1	1	1	8	4	12	11	18	20				
2	1	3	..	..	5	4	9	1	2	3	..	..	..	..	..	..	..	..	..	..	..	..	3	3	6	5	4	9	
4	1	5	7	6	13	10	12	22	6	7	13	..	1	1	..	1	1	..	1	1	..	..	..	11	7	18	16	22	38	
2..	2	3	..	3	3	..	3	6	..	6	..	3	3	2	3	5	1	4	5	2	..	2	..	2	2	16	12	28	3	2	5		
..	..	3	..	3	1	1	2	1	..	1	..	1	1	..	2	2	..	1	1	..	1	1	..	4	4	8	1	3	4				
2	..	2	6	..	6	4	1	5	7	..	7	..	4	4	2	5	7	1	5	6	2	1	3	..	3	3	..	2	2	20			
8	7	15	12	12	24	7	8	15	3	2	5	..	1	1	..	..	..	..	..	..	..	..	..	11	14	25	10	16	35
1	3	4	5	7	12	4	3	7	..	1	1	..	..	..	..	..	..	..	..	..	..	..	6	5	11	4	9	13	
9	10	19	17	19	36	11	11	22	3	3	6	..	..	..	..	..	..	..	..	..	..	..	17	19	36	23	25	48	
3	..	3	4	2	6	2	4	6	1	5	6	2	3	5	1	6	7	..	4	4	..	2	2	..	10	26	36	3	..	3	
..	..	4	..	4	2	..	2	3	3	6	..	..	1	..	1	1	1	2	..	1	1	..	..	8	4	12	3	1	4
3	..	3	4	..	4	6	2	8	5	7	12	1	5	6	3	3	6	2	7	9	..	5	5	..	2	2	..	18	30	48	6	1	7
..	..	..	1	1	..	..	1	1	..	1	1	..	1	1	1	1	2	..	..	..	..	..	..	..	2	2	1	2	3
..	..	..	..	1	1	2	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2	..	2
..	..	..	1	1	1	1	2	1	1	2	..	..	1	1	1	1	2	..	..	..	..	..	..	..	3	3	3	2	5
..	1	1	1	..	1	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	1	..	1	1	1	1	2
..	1	1	1	..	1	..	..	..	1	1	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1
..	2	2	2	..	2	..	..	..	1	1	2	..	..	..	..	..	..	..	..	..	..	..	1	..	1	1	2	3	
15	8	23	23	19	42	19	18	37	16	12	28	1	10	11	5	8	13	3	12	15	2	4	6	..	4	4	..	2	2	46			
3	4	7	12	7	19	13	9	22	6	6	12	..	1	1	1	3	4	1	2	3	..	2	2	..	1	1	..	..	21		
18	12	30	35	26	61	32	27	59	22	18	40	1	11	12	6	11	17	4	14	18	2	6	8	..	5	5	..	2	2	67			
																									75	142	53	57	110				

TABLE XIII A.—*Relapsed Cases.*

	M.	F.	T.		M.	F.	T.
First Admissions	419	390	809	—of whom these had one or more previous attacks	92	103	195
Readmissions	76	97	173	—of whom these were admitted relapsed	31	45	76
Total	495	487	982		123	148	271
				Add reported relapsed after final discharge	11	7	18
					134	155	289

RELAPSED PERSONS.

(289 Cases as above referable to 250 Persons.)

	M.	F.	T.	
Of 250 persons	81	74	155	had 2 attacks, being 19·15 % of 809.
	16	22	38	„ 3 „ „ 4·69 „
	2	13	15	„ 4 „ „ 1·85 „
	0	3	3	„ 5 „ „ 0·36 „
	3	2	5	„ 6 „ „ 0·61 „
	12	11	23	had many „ „ 2·96 „
	5	6	11	unknown number, „ 1·36 „
	119	131	250	Sum 30·98 „

Or

		Recovered here after First Admission.	Recovered after Removal.	Recovered after Removal and Readmission.	Total.
Of Males	419	120	25	1	146
„ Females	390	132	26	3	161
Total	809	252	51	4	307

Not Relapsed.

Of Males	146	53	12	66
„ Females	161	57	14	73
Total	307	110	26	139

Percentages.

		Total Recoveries 34·84%	Permanent Recoveries 15·75%
Of Males	419	„ „ 41·28%	„ „ 18·71%
„ Females	390		
Total	809	„ „ 37·94%	„ „ 17·18%

TABLE XIV.—*Causes of Death, correlated with Neuropathic Heredity and Forms of Mental Disorder on admission. Certified Patients admitted and readmitted. Asylum Statistics.*

		FORMS OF ORDINARY INSANITY.														
Cause of Death.		Melancholia.			Mania.			Delusional.			Dementia.			Aggregate.		
		M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
Cerebro-Spinal . .	NP.	3	..	3	11	10	21	3	..	3	15	2	17	32	12	44
	O.	2	2	4	7	6	13	3	1	4	8	1	9	20	10	30
	T.	5	2	7	18	16	34	6	1	7	23	3	26	52	22	74
Circulatory . . .	NP.	1	3	4	2	4	6	1	..	1	2	1	3	6	8	14
	O.	..	2	2	2	4	6	2	..	2	1	..	1	5	6	11
	T.	1	5	6	4	8	12	3	..	3	3	1	4	11	14	25
Respiratory . . .	NP.	3	..	3	3	4	7	..	..	..	..	..	..	6	4	10
	O.	1	..	1	1	1	2	1	1	2	2	..	2	5	2	7
	T.	4	..	4	4	5	9	1	1	2	2	..	2	11	6	17
Alimentary . . .	NP.	..	3	3	1	..	1	..	..	..	..	1	1	1	4	5
	O.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	T.	..	3	3	1	..	1	..	..	..	..	1	1	1	4	5
Urinary	NP.	..	1	1	2	1	3	..	2	2	..	1	1	2	5	7
	O.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	T.	..	1	1	2	1	3	..	2	2	..	1	1	2	5	7
General	NP.	2	3	5	3	5	8	2	..	2	4	2	6	11	10	21
	O.	1	1	2	1	3	4	..	1	1	2	2	4	4	7	11
	T.	3	4	7	4	8	12	2	1	3	6	4	10	15	17	32
Accidental . . .	NP.	..	1	1	2	..	2	..	..	..	1	..	1	3	1	4
	O.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	T.	..	1	1	2	..	2	..	..	..	1	..	1	3	1	4
Grand Aggregate.	NP.	9	11	20	24	24	48	6	2	8	22	7	29	61	44	105
	O.	4	5	9	11	14	25	6	3	9	13	3	16	34	25	59
	T.	13	16	29	35	38	73	12	5	17	35	10	45	95	69	164

TABLE XV.—Age at Death, with duration of Fatal Malady and duration of Mental Disorder from First Attack.
All Deaths from first admissions and readmissions. Asylum Statistics.

Age at Death in Years.	Duration of Fatal Malady.										Duration of Mental Disorder.										Total Deaths.					
	-1 mo.	-3 mos.	-6 mos.	-9 mos.	-1 yr.	-2 yrs.	-3 yrs.	+3 yrs.			-3 mos.	-6 mos.	-9 mos.	-1 yr.	-2 yrs.	-3 yrs.	-4 yrs.	-5 yrs.	-10 yrs.	-20 yrs.		-30 yrs.	-40 yrs.	-50 yrs.	-60 yrs.	+60 yrs.
Males.																										
-15 .	1														1										1	
-20 .																									4	
-25 .	1	1	1	1	1			7						1	1					2					17	
-30 .								2																	4	
-40 .															2										9	
-45 .								3						1	1										9	
-50 .								2																	8	
-55 .																									9	
-60 .								9																	22	
-65 .								1																	7	
-75 .								3																	5	
-80 .								4																	7	
-90 .								2																	5	
Totals	30	3	2	2	5	5	10	38			16	7	7	3	8	11	5	1	6	12	4	5	5	1	95	
Females.																										
-15 .																									1	
-20 .	1																								1	
-25 .																									2	
-30 .	1																								4	
-35 .																									1	
-40 .	1																								2	
-45 .																									1	
-50 .	1	2						3																	6	
-55 .								5																	9	
-60 .	1	1	2					1																	5	
-65 .	3	1						4																	11	
-70 .	5	2						1																	16	
-75 .	3							4																	11	
-80 .	3	1						6																	11	
-90 .	4	1						3																	8	
Totals	26	8	4		2	3	8	26			7	5	4		3	8	6	2	13	4	2	6	3	5	1	69
Grand Totals	56	11	6		7	8	10	64			23	12	11	3	11	19	11	3	19	16	6	11	8	10	1	164

TABLE XVI.—Correlations of Somatic Disorders.

Bodily Disorders, etc.	SENSORY DISORDERS.					APPETITES.					DISORDERS OF EMOTION.							DELUSIONS.								
	Sight.	Hearing.	Smell.	Taste.	Touch.	Visceral.	Total.	+ Food.	+ Sex.	+ Sleep.	Total.	Depression.	Excit.	Pervert.	Weak.	Total.	Deprec.	Grand.	Persec.	Fear.	Identity.	Others.	Total.	Suicidal.	Homicidal.	Marked De- generation.
Somatic Stigmata	M. 21	1	1	1	1	1	3	1	1	2	5	2	2	1	1	6	2	1	3	1	2	1	9	2	16	
	F. 9	2	1	1	1	1	4	1	1	3	3	1	1	1	1	1	1	2	1	1	1	4	2	9		
Hemopoietic	T. 30	3	1	1	1	1	7	1	1	4	8	2	2	1	1	6	3	3	3	1	3	13	2	25		
	M. 12	1	1	1	1	1	2	2	1	3	6	1	4	1	7	12	1	1	7	2	3	13	1	3	9	
Cardio-vascular	F. 25	4	3	3	1	4	22	8	5	9	22	4	6	3	3	16	6	3	9	3	5	26	3	4	4	
	M. 58	3	8	3	3	1	6	21	7	21	30	12	11	3	5	31	9	10	27	10	11	53	13	7	15	
Respiratory	F. 69	11	9	2	3	2	10	37	11	6	59	18	21	9	5	53	23	5	21	10	11	27	18	5	25	
	T. 104	18	26	7	6	4	21	82	2	28	117	35	42	15	20	112	39	13	64	17	24	216	40	19	53	
Gastro-intestinal	M. 5	2	1	1	1	1	4	1	1	1	1	1	1	1	2	3	1	1	2	1	1	4	1	3	3	
	F. 5	1	2	1	1	1	4	1	1	1	1	1	1	1	1	1	1	1	2	1	1	4	1	3	3	
Renal and Vesical	T. 10	2	3	1	1	1	8	1	1	1	2	1	2	1	3	7	2	2	4	1	1	8	1	6	6	
	M. 72	5	13	4	3	1	38	5	4	30	47	18	15	9	5	47	16	8	28	11	6	1	70	19	7	
Generative	F. 75	11	14	5	4	10	44	1	20	38	69	20	24	8	7	69	22	6	24	6	9	1	68	23	6	
	T. 147	16	27	9	3	5	82	6	28	68	116	38	39	17	12	106	38	14	52	17	15	2138	42	13	37	
Skin	M. 5	1	1	1	1	1	2	1	1	1	3	2	1	1	3	3	1	1	1	1	2	8	3	1	1	
	F. 4	1	1	1	1	1	4	1	1	1	3	1	1	1	1	1	1	1	2	1	1	2	1	1	1	
Tot. of above—M. 188, F. 279 =	T. 9	2	2	1	1	1	6	2	2	1	3	2	1	1	4	3	1	3	1	3	1	10	4	1	1	
	M. 1	11	10	3	4	10	38	1	13	1	31	57	10	11	12	7	40	28	7	20	11	1	4	1	1	
Tot. of above—M. 188, F. 279 =	F. 79	11	10	3	4	10	38	1	13	1	31	57	10	11	12	7	40	28	7	20	11	2	90	21	10	18
	T. 80	11	10	3	4	10	38	1	14	1	31	58	11	11	12	7	41	29	8	29	12	2	94	22	10	18
Tot. of above—M. 188, F. 279 =	M. 14	2	1	1	1	1	5	2	1	1	4	1	2	1	2	2	2	2	8	1	1	13	7	2	4	4
	F. 13	3	2	1	1	1	9	1	1	2	3	1	1	2	1	4	2	2	2	2	1	1	7	2	5	5
Tot. of above—M. 188, F. 279 =	T. 27	5	3	2	2	2	14	3	1	3	7	1	3	2	2	6	4	4	10	1	1	20	2	2	9	9
	467	52	71	24	16	17	57	237	11	76	40	1	183	311	90	100	48	44	282	116	50	6447	113	43	149	149



TABLE XVII.—*Showing the Incidence of Heredity in Patients addicted to the intemperate use of Alcohol and Drugs. Certified Class.*

Heredity of—				Percentage calculated on 110.		
	M.	F.	T.	M.	F.	T.
Insanity	39	8	47	45·88	32·00	42·73
Neuroses	5	1	6	5·88	4·00	5·45
Alcoholism	16	8	24	18·83	32·00	21·82
None ascertained . .	25	8	33	29·41	32·00	30·00
	85	25	110	100·00		

By Periods—				Percentage calculated on 110.		
	M.	F.	T.	M.	F.	T.
First to 1884	10	3	13	11·77	12·00	11·82
Second to 1894	22	5	27	25·88	20·00	24·54
Third to 1904	53	17	70	62·35	68·00	63·64
	85	25	110	100·00		

